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Sequence Listing was accepted.

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Reviewer: Durreshwar Anjum

Timestamp: Wed May 16 10:12:18 EDT 2007

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Application No: 10588095 Version No: 1.0

Input Set:

Output Set:

Started: 2007-05-15 16:39:51.705
Finished: 2007-05-15 16:39:52.943
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 238 ms
Total Warnings: 22
Total Errors: 0
No. of SeqIDs Defined: 24
Actual SeqID Count: 24

Error code	Error Description
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W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
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W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)
W 213	Artificial or Unknown found in <213> in SEQ ID (21)
W 213	Artificial or Unknown found in <213> in SEQ ID (22)

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Error code	Error Description
	This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> SUNG, SOON-KEE
LEE, YOUNG-PYO
YU, GYUNG-HEE
CHOI, YEON-OK

<120> The usage of MADS-box genes in fruit & seed development by regulating active gibberelin synthesis

<130> 428.1074

<140> 10588095

<141> 2007-05-15

<150> US/10/588,095

<151> 2006-07-28

<150> PCT/KR05/00282

<151> 2005-01-31

<150> KR10-2004-10432

<151> 2004-02-17

<150> KR10-2004-6551

<151> 2004-02-02

<160> 24

<170> KopatentIn 1.71

<210> 1

<211> 1065

<212> DNA

<213> Malus domestica

<220>

<221> gene

<222> (1)..(1065)

<223> Malus domestica mRNA for C-type MADS-box protein (MdMADS14)

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acccacttcc cacttctgca attcttcctt ccgggttgcca agtgcaaccc caaaagaaaa 60

actcaaagt c aagaactaac agaaaagagcc acaattcatc tattttgagg ggttttgcc 120

attttcatc cttgttaacaa tggagttcgc aaatcaagca cctgagagct ctacccaaaa 180

aaaattggga agaggcaaaa ttgagattaa gcggatcgaa aacactacca atcgacaagt 240

caccttctgc aaacgcccga acggattgct taagaaagcc tatgaattgt ctgttcttg 300

tgatgctgaa gttgctctta tcgtcttctc cacccgtggc cgcctctatg agtatgctaa 360

caacagcggtt agagcaacaa tcgacaggtt caaaaaagca tgcgctgatt ctacggacgg 420

tggatctgta tcagaagcta acactcagtt ttatcagcag gaagcatcaa aactgcgaag 480
acagatccga gaaattcaga attcaaacag gcataatactg gggaatccc ttagcacctt 540
gaaagtcaag gaactgaaaa acctagaagg aagattggag aaaggaatca gcagaataag 600
atccaaaaag aatgaaatcc tgtttctga aatcgaattc atgcaaaaga gggagactga 660
gctgcaacac cacaacaatt ttctgagagc aaagataagct gaaagcgaga gggAACAGCA 720
gcagcagcaa acacatatga ttccggaaac ttccctacgt ccgtcgatgc cttcgaattc 780
gtatgacagg aacttcttcc ctgtgatctt ggagtccat aataaccatt accctcgcca 840
aggccagaca gctctccaac ttgttgaaa tgctggactg ccgtctgatg ttcttctatc 900
catatcctct gatctgtctt cataaatcta tgagataatt gacgtttagt ttttatgtta 960
tatggagaa ccagtttgct catgttctcc ataatatata tatgtgtgat gatggacccc 1020
aattctgtga taacatatat agtaaatttt attttctcac cccga 1065

<210> 2
<211> 876
<212> DNA
<213> Malus domestica

<220>
<221> gene
<222> (1)..(876)
<223> Malus x domestica AGAMOUS-like protein mRNA, complete
cds (MdMADS16)

<400> 2
gcaattcttc cttcccggtg ccaagtgcaa ccccaataga aaaactcaaa gtcaagaact 60
agctaacaga gaaaaccaca attcatcaat ttggaggggt tttgccatt tttcatcctt 120
gcaacaatgg agttcccaa tcaaggcaccc gagagctcct cccagaaaaaa attggaaagg 180
ggcaaaaattg agattaagcg gatcgaaaac actacaaaatc gacaagttac cttctgcaaa 240
cgccgcaacg gattgcttaa gaaaggctat gaattgtctg ttctttgtga tgctgaagtt 300
gctcttatcg tgttctccaa ccgtggccgc ctctatgagt atgctaacaa cagtgttaga 360
gcaacaatcg acaggtacaa aaaaggatac gctgatccta cgaacagtgg atctgtttca 420
gaagccaaca ctcagttta tcagcaggaa gcatccaaac tgcgaagaca gatccgagaa 480
attcagaatt caaacaggca tatactgggt gaagctctta gctcctgaa cgccaaaggaa 540
ctgaagaacc tagaaggaag attggagaaa ggaatcagca gaataagatc caaaaagaat 600

gaaatgctgt tttctgaaat cgaattcatg caaaaaaggg agaccgagct gcaacaccac 660
aacaattttc tgagagcaa gatagctgaa aacgagaggg aagagcagca gcatacacac 720
atgatgccgg gaacttccta cgatcaagtca atgccttcgc attcttatga caggaacttc 780
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<210> 3
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> first forward degenerate primer

<220>
<221> misc_feature
<222> (1)..(20)
<223> 6th, 12th, 15th nucleotide 'n' represent inosine

<400> 3
aaycgncarg tnacnttytg 20

<210> 4
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> first reverse degenerate primer

<220>
<221> misc_feature
<222> (1)..(19)
<223> 3th, 12th, 15th and 18th nucleotide 'n' represent inosine

<400> 4
tcngcgatyt tnshnckna 19

<210> 5
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> second forward degenerate primer

<220>
<221> misc_feature
<222> (1)..(20)
<223> 9th and 18th nucleotide 'n' represent inosine

<400> 5
aaraargcnt aygarytntc 20

<210> 6
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> third forward primer

<400> 6
tctagaacta gtggatcccc cgggctgcag gaattc 36

<210> 7
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> third reverse primer

<400> 7
atccactgtt cgttaggatca gcgtatg 27

<210> 8
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> forth forward primer

<400> 8
ggctgcagga attcggcact aggcaatt 28

<210> 9
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> forth reverse primer

<400> 9
gcaagcttat cagacggcag tccagc 26

<210> 10
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> MdMADS14 forward primer

<400> 10
ggaaacagca gcagcagcaa a 21

<210> 11
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> MdMADS14 reverse primer

<400> 11
ctccaagatc acagggaaga a 21

<210> 12
<211> 21
<212> DNA
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<220>
<223> MdMADS16 forward primer

<400> 12
tgaaaacgag aggaaagagc a 21

<210> 13
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> MdMADS16 reverse primer

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<210> 14
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> ACTIN forward primer

<400> 14
cgatggccaa gtcatcacaa t 21

<210> 15
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> ACTIN reverse primer

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tctcatgaat gccagcagct t 21

<210> 16
<211> 249
<212> DNA
<213> Artificial Sequence

<220>
<223> hybridization probe

<400> 16
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aaaaacgaga gggaaagagca gcagcataca cacatgatgc cggaaacttc ctacgatcag 120
tcaatgcctt cgcattctta tgacaggaac ttcccccag cggtgatctt ggagtccaaac 180
aataaccatt accctcacca agtccagaca gctctccaac ttgtttgaaa tgctggactg 240
ccgtctgat 249

<210> 17
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> npt II forward primer

<400> 17
gaggctattc ggctatgact g 21

<210> 18
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> npt II reverse primer

<400> 18
atcgggagcg gcgataccgt a 21

<210> 19
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> MdMADS forward primer

<400> 19
gaattcaaac aggcatatac tggg 24

<210> 20
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> MdMADS reverse primer

<400> 20
gacggatcgt aggaagtcc c 21

<210> 21
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> RIN forward primer

<400> 21
tggtacactt gaaggaaaccc a 21

<210> 22

<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> RIN reverse primer

<400> 22
catgttgtga tggtgctgca 20

<210> 23
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Le20ox-1 forward primer

<400> 23
cccaacaaggc atctgagc 18

<210> 24
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Le20ox-1 reverse primer

<400> 24
ttcctaaggc gagctccg 18